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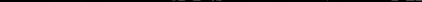
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	Not assigned
		Filing Date	July 9, 2001
		First Named Inventor	RIESS et al
		Group Art Unit	Not assigned
		Examiner Name	Not assigned
Sheet	1	of	2
		Attorney Docket Number	11927/46101



## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	3/09/05
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	Not assigned
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				First Named Inventor	RIESS et al
				Group Art Unit	Not assigned
				Examiner Name	Not assigned
Sheet	2	of	2	Attorney Docket Number	11927/46101

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
KNM		Xu et al, "An Improved Decision-Directed Equalization Algorithm for MQAM Modulation", <i>Chinese Journal of Electronics</i> , vol. 9, pp 45-51 (1997)		T <sup>2</sup>
KNM		Kwon et al, "A Blind Equalization with the Variable Decision Region", <i>Pers. Indoor and Mobile R. Comm.</i> , vol. 2, pp 322-326 (Sept. 1997)		
KNM		Lee et al, "A Decision-Directed Blind Equalization with the Error Variance Estimation", vol. 1, pp 99-103, IEEE, (Oct. 1997)		
KNM		Lee et al, "Convergence Analysis of the Stop-and-Go Blind Equalization Algorithm", <i>IEEE Trans. Comm.</i> , vol. 47, no. 2, pp 177-180, (Feb. 1999)		
KNM		Xu et al, "New Decision-Directed Equalization Algorithm for QAM Communication Systems", <i>IEEE Global Telecommunications Conference 1996</i> , vol. 2, pp 1330-1334, (1996)		
KNM		Werner et al, "Blind Equalization for Broadband Access", <i>IEEE Comm.</i> , vol. 37, no. 4, pp 87-93, (April 1999)		
KNM		Lee et al, "Joint Blind Equalization with a Shell Partition-Based CMA for QAM Signal Constellations", <i>IEEE Int'l. Conference on Acoustics, Speech, and Signal Processing</i> , IEEE Computer Society Press, pp 2513-2516, (April 21-24, 1997)		
KNM		Tseng et al, "A Stop-and-Go Dual-Mode Algorithm for Blind Equalization", <i>Globecom 96</i> , vol. 2, pp 1427-1431, (November 18-22, 1996)		
KNM		Garth et al, "Blind Equalization Algorithms with Automatic Constellation Phase Recovery for Dual-Mode CAP-QAM Reception", <i>1999 IEEE Int'l. Conference on Communications</i> , vol. 3, pp 1531-1536, (June 8-10, 1999)		
		Axford et al, "A Dual-Mode Algorithm for Blind Equalization of QAM Signals: CADAMA", <i>29th Asilomar Conference on Signals, Systems &amp; Computers</i> , vol. 1, pp 172-176, (October 30 - November 1, 1995)		
		Weerackody et al, "Dual-Mode Type Algorithms for Blind Equalization", <i>IEEE Transactions on Communications</i> , Vol. 42, no. 1, pp 22-28, (January 1994)		

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

2

## Complete if Known

Application Number	09/899,843
Filing Date	July 9, 2001
First Named Inventor	RIESS et al
Group Art Unit	2819
Examiner Name	Not assigned

Attorney Docket Number

11927/46101

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code <sup>2</sup> (if known)			
KJW		4,227,152		Godard et al	October 7, 1980	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

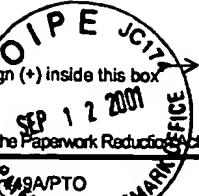
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
KJW		Jablon, Neil K., "Joint Blind Equalization, Carrier Recovery, and Timing Recovery for High-Order QAM Signal Constellations", <i>IEEE Transactions on Signal Processing</i> , pp. 1383-1397, Vol. 40, No. 6, June 1992	
KJW		Johnson et al, "Blind Equalization Using the Constant Modulus Criterion: A Review", <i>Proceedings of the IEEE</i> , pp. 1927-1950, Vol. 86, No. 10, October 1998	
KJW		Yang et al, "The Multimodulus Blind Equalization Algorithm", 1997 13 <sup>th</sup> Int'l Conference on Digital Signal Processing Proceedings, DSP 97", pp. DSP 97-127 through DSP 97-130, Volume 1 of 2, July 2-4, 1997, Santorini, Hellas (Greece)	
KJW		Treichler et al, "Practical Blind Demodulators for High-Order QAM Signals", <i>Proceedings of the IEEE</i> , Special Issue on Blind Systems Identification and Estimation, edited by R. Liu and L. Tong, pp. 1907-1926, Vol. 86, No. 10, October 1998	
KJW		Gertsman et al, "Symbol-by-Symbol MAP Demodulation of CPM and PSK Signals on Rayleigh Flat-Fading Channels", <i>IEEE Transactions on Communications</i> , pp. 788-799, Vol. 45, No. 7, July 1997	
KJW		Benedetto et al, "A Soft-Input Soft-Output APP Module for Iterative Decoding of Concatenated Codes", <i>IEEE Communications Letters</i> , pp. 22-24, Vol. 1, No. 1, January 1997	
KJW		Kenington, P.B., "Emerging Technologies for Software Radio", <i>Electronics Communication Engineering Journal</i> , pp. 69-83, Vol. 11, No. 2, April 1999	
KJW		Porat et al, "Blind Equalization of Digital Communication Channels Using High-Order Moments", <i>IEEE Transactions on Signal Processing</i> , Vol. 39, No. 2, February 1991	

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 2 of 2 Attorney Docket Number 11927/46101

<i><b>Complete if Known</b></i>	
Application Number	09/899,843 <i>SFP 11. 71.</i>
Filing Date	July 9, 2001
First Named Inventor	RIESS et al <i>TC 2000 UNIT 11A 110</i>
Group Art Unit	2819
Examiner Name	Not assigned
Attorney Docket Number	11927/46101

#### **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Signature	K. M. Charnley	Date Considered	2/9/05
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STATEMENT BY APPLICANT**

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Sheet 1

07-10-2001

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

***Complete If Known***

**Application Number** 09/899,843

**Filing Date** July 9, 2001

**First Named Inventor**

Group Art Unit

**Examiner Name**

Attorney Docket Number 11927/46101

Sheet 1 of 1 Attorney Docket Number

11927/46101

## **U.S. PATENT DOCUMENTS**

Examiner Initiatives *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code <sup>2</sup> (if known)			

## **FOREIGN PATENT DOCUMENTS**

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<i>KMN</i>		Godard, Dominique N., "Self-Recovering Equalization and Carrier Tracking in Two-Dimensional Data Communication Systems", <i>IEEE Transactions on Communications</i> , Vol. Com-28, No. 11, pp. 1867-1875, November 1980	

**Examiner  
Signature**

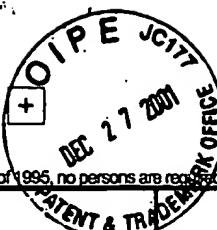
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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 1

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<i><b>Complete If Known</b></i>	
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
KWM		EP	0 845 891	A2	WERNER et al	6/3/98		
KWM		WO	99/23795		MOLNAR , Karl	5/14/99		

## **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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*KMChang*

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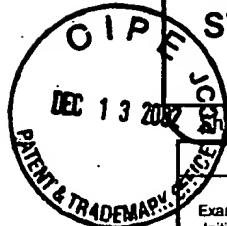
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		Number	Kind Code <sup>2</sup> (if known)		
KJW	5,818,876			Love	10/06/98
KJW	5,887,035			Molnar	03/23/99
KJW	5,229,767			Winter et al	07/20/93
KJW	5,742,642			Fertner	04/21/98

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KJW	EP	0 625 829	A2		AT&T Corp.	11/23/84
KJW	EP	1 024 631	A1		France Telecom /Telediffusion de France	08/02/00

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS						
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KJW		Kong et al, "Detection of Amplitude-Phase Modulated Signals Over Frequency Nonselective Rayleigh Fading Channels with Adaptive Symbol-Aided Channel Estimation" IEEE Vehicular Technology Conference, Atlanta, Georgia, USA, IEEE, Conf. 46, April 28-May 1, 1996, ISBN 0-7803-3158-3				
KJW		Hoher, Peter, "TCM on Frequency-Selective Fading Channels: A Comparison of Soft-Output Probabilistic Equalizers", Proceedings of the Global Telecommunications Conference and Exhibition (GLOBECOM), USA, New York, IEEE, December 2, 1990, ISBN 0-87942-632-2				
KJW		Kong et al, "Adaptive MLSE of QAM Signals over Frequency Nonselective Rayleigh Fading Channels", IEE Proceedings: Communications, Great Britain, Institution of Electrical Engineers, Vol. 145, No. 6, December 1998, ISSN 1350-2425				
KJW		Hart et al, "Maximum-Likelihood Synchronization, Equalization, and Sequence Estimation for Unknown Time-Varying Frequency-Selective Rician Channels", IEEE Transactions on Communications, USA, IEEE Inc., New York, Vol. 46, No. 2, February 1, 1998, ISSN 0090-6778				

Examiner Signature	KJW	Date Considered	3/9/05
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